



BLUE ROCK
ENVIRONMENTAL, INC.

FILE COPY

Mr. Bob Stone
Environmental Health Specialist
Humboldt County Division of Environmental Health
100 H Street, Suite 100
Eureka, CA, 95501

July 28, 2005

Re: **Third Quarter 2005 Groundwater Monitoring Report**
Indianola Market
7769 Myrtle Avenue
Eureka, CA
Project No. NC-18
LOP # 12690

Dear Mr. Stone,

This report presents the results of the Third Quarter 2005 groundwater monitoring activities at 7769 Myrtle, Eureka, Humboldt County, California (site) (Figure 1), and was prepared for Mr. And Mrs. Cecil Alto by Blue Rock Environmental, Inc. (Blue Rock).

Background

Site Description

The subject site is located near the northern boundary of the City of Eureka in Humboldt County approximately 800 feet north of the intersection of Indianola Cutoff and Myrtle Avenue in a combined commercial/ residential area of Eureka at approximately 25 feet above mean sea level (Figure 1). The site is located in the southern portion of a 5-acre parcel of land containing two residences, the Indianola Market, and The Alto Brothers Trucking equipment maintenance/ storage yard and office.

Site History

The Indianola Market contained two 550-gallon capacity gasoline underground storage tanks (UST) and one 550-gallon capacity diesel UST (Figure 2). The UST system, consisting of one 550-gallon gasoline and one 550-gallon diesel UST was constructed in 1953. At some time during the 1960's, the diesel UST was abandoned in-place and an additional 550-gallon gasoline UST was installed. The UST system was operated until September 1998, when the three USTs were closed by removal. The UST system was replaced by a single 1,000-gallon capacity aboveground gasoline storage tank, which is currently located on a concrete pad directly above the former UST excavation.

In September 1998, Christens NCI, Inc. (NCI), of Eureka, California, decommissioned and removed three USTs from the site along with associated piping, dispensers, and the dispenser island. This work was observed by the HCDEH and at the direction of the HCDEH inspector, approximately 50 to 75 cubic yards of obviously impacted soil was excavated and stockpiled at

the site pending disposal. During UST removal activities, petroleum hydrocarbon stained soils were observed and groundwater entering the excavation exhibited a sheen accompanied by hydrocarbon odors. This confirmed that an unauthorized release of petroleum had occurred. On September 29, 1998, an unauthorized release report was filed by Mr. Jerry Avila, operator of the UST system at that time. After completion of UST removal and soil excavation operations, NCI personnel collected confirmation soil and groundwater samples from the excavation at locations specified by the HCDEH. Results of soil and groundwater sampling confirmed that an unauthorized release of petroleum had occurred.

Site Investigation and Corrective Action History

On October 1, 2001, Clearwater Group (Clearwater) supervised Fisch Environmental of Valley Springs, California drill five direct push borings to preliminarily investigate the onsite extent of soil and groundwater contamination resulting from the confirmed release from the former UST system. Results for this investigation and the locations of the proposed monitoring wells were presented in Clearwater's *Preliminary Subsurface Investigation Report* dated October 22, 2001. In a letter dated October 26, 2001, the HCDEH concurred with Clearwater recommendations for monitoring well locations.

On November 7, 2001, Clearwater supervised Mitchell Drilling Environmental (MDE) in installing three monitoring wells: MW-1, MW-2 and MW-3 (Figure 2). These monitoring wells were placed in locations to assess the sorbed and dissolved-phase hydrocarbon contamination associated with the UST release. Results of this investigation are presented in Clearwater's *Monitoring Well Installation and Fourth Quarter 2001 Groundwater Monitoring Report* dated December 13, 2001.

On October 10, 2002, Clearwater supervised MDE in drilling two monitoring wells: MW-4 and MW-5 (Figure 2). These monitoring wells were placed in locations to further assess the residual sorbed and dissolved-phase gasoline and diesel range hydrocarbon contamination associated with the UST release. Data collected during this phase of investigation are presented in Clearwater's *Monitoring Well Installation and Fourth Quarter 2002 Groundwater Monitoring Report / Sensitive Receptor Survey* dated November 18, 2002.

On June 10, 2003, Clearwater supervised MDE in installing four soil borings: B-6 to B-9 (Figure 2). These borings were placed in locations to further assess the residual sorbed and dissolved-phase gasoline and diesel range hydrocarbon contamination associated with the UST release. Data collected during this phase of investigation are presented in Clearwater's *Additional Investigation Report* dated July 8, 2003.

Per HCDEH request in a letter dated July 11, 2003, Clearwater prepared and submitted a *Corrective Action Plan (CAP)* dated February 18, 2004. The HCDEH responded to the CAP submitted by Clearwater in a letter dated April 23, 2004 requesting corrections to the existing CAP and a response to questions contained in that letter. In May 2004, Blue Rock was retained

by Mr. and Mrs. Alto to continue site work. Blue Rock subsequently submitted a brief letter report dated June 15, 2004 in response to HCDEH requests.

Field and Laboratory Activities

Groundwater Monitoring Activities

On July 1, 2005, five wells (MW-1 through MW-5) were gauged and sampled. Prior to sampling, an electronic water level indicator was used to gauge depth to water in each well, accurate to within ± 0.01 -foot. All wells were checked for the presence of light non-aqueous phase liquid (LNAPL) petroleum prior to purging. No measurable thicknesses of LNAPL were observed on groundwater in any of the wells.

In preparation for sampling, the wells were purged of groundwater until sampling parameters (temperature, pH, and conductivity) stabilized. Following recovery of water levels to at least 80% of their static levels in the other wells, groundwater samples were collected from the wells using disposable polyethylene bailers and transferred to laboratory supplied containers. Sample containers were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

Purging instruments were cleaned between use by an Alconox[®] wash followed by double rinse in clean tap water to prevent cross-contamination. Purge and rinse water was stored on-site in labeled 55-gallon drums pending future removal and disposal.

Groundwater monitoring and well purging information is presented on Gauge Data/Purge Calculations and Purge Data sheets (attached).

Groundwater Sample Analyses

Groundwater samples were analyzed by Kiff Analytical (Kiff), a DHS-certified laboratory, located in Davis, California, for the following analytes:

- TPHd by EPA Method 8015 (MW-2 & MW-5)
- TPHg, BTEX and MTBE by EPA Method 8260B

Groundwater Monitoring Results

Groundwater Flow Direction and Gradient

Static groundwater in the wells was present beneath the site at depths ranging from approximately 1.01 (MW-3) to 3.27 (MW-5) feet bgs. Gauging data, combined with well elevation data, were used to calculate groundwater elevations, and to generate a groundwater elevation and gradient map. The groundwater flow direction was primarily calculated to be toward the southwest at a gradient of approximately 0.05 ft/ft (Figure 3). The groundwater gradient and flow direction is consistent with previous measurements.

Groundwater Contaminant Analytical Results

LNAPL:	None
TPHg concentration:	<50 µg/L (MW-1, 3, 4 & 5) to 420 µg/L (MW-2)
TPHd concentration:	<50 µg/L (MW-5) to < 400 µg/L (MW-2)
MTBE concentration:	<0.5 µg/L (MW-4) to 260 µg/L (MW-2)
Benzene concentration:	<0.5 µg/L (MW-1, 2, 3, 4, & 5)

Groundwater sample analytical results are shown graphically on Figures 4 and 5. Cumulative groundwater sample analytical results are summarized in Table 1. Copies of the laboratory report and chain-of-custody form are attached.

Remarks

Groundwater sample analytical results fall within historical concentration range for the site. Silica gel cleanup was inadvertently not used for the TPHd analysis for groundwater samples collected from MW-2 and MW-5. The plume of dissolved-phase hydrocarbons appears stable with no significant migration.

First Order Decay Rates First Quarter 2005

This report contains first order decay rate graphs (Charts 1 to 3). Concentrations of dissolved-phase MTBE in MW-2 are declining at a rate of 0.0011 day^{-1} . Based on current analytical data, concentrations of TPHg in MW-2 and MTBE in MW-5 appear to be stable and/or decreasing over the last four quarters.

Depth to Water vs. Concentrations of TPHg and MTBE in MW-2

Depth to water data and TPHg/MTBE concentrations show an inverse relationship (Charts 4 and 5). To state this another way, groundwater elevation and dissolved-phase contaminant concentrations show a direct relationship. This likely results from the scenario of rising groundwater coming into contact with sorbed-phase contaminants, which then partition to the dissolved-phase and increase groundwater contaminant concentrations. As the groundwater drops, and falls out of contact with more shallow soil contamination, the dissolved-phase contaminants decline.

Dissolved-Phase Mass Calculations Fourth Quarter 2003 to Third Quarter 2005

Calculations of residual dissolved-phase masses for MTBE over time and show declining trends. Based on the data presented (Charts 6 and 7), the dissolved-phase mass of residual fuel hydrocarbons associated with the subject release is stable and/or decreasing. Mass calculations for individual quarters and associated graphs are attached.

Project Status and Recommendations

- The site is currently being monitored on a quarterly basis per the HCDEH directives. The next quarterly sampling event is scheduled for October 2005. Per the HCDEH letter dated July 26, 2004 the current analytical suite is as follows: TPHg, BTEX and MTBE by EPA Method 8260B (all wells) and TPHd by EPA Method 8015M with silica gel cleanup (MW-2 & MW-5).
- Groundwater analytical data collected from MW-2 and MW-5 over the last four quarters indicate that concentrations of dissolved-phase TPHg and MTBE at these monitoring points are decreasing and/or stable. Because of these observed declines in concentrations of target analytes, continued groundwater monitoring may indicate that a more cost effective, less invasive remedial alternative may be more appropriate. Blue Rock will continue to update the HCDEH regarding when the excavation will occur.
- Water from the domestic well located at 7711 Myrtle Avenue should be sampled and analyzed for TPHg, BTEX and MTBE in the next quarterly groundwater monitoring event.

Certification

This report was prepared under the supervision of a California Professional Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock or others. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

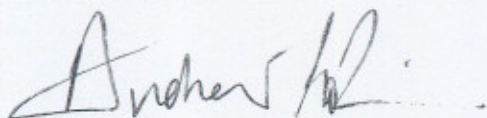
Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

If you have any questions regarding this project, please contact us at (707) 441-1934.

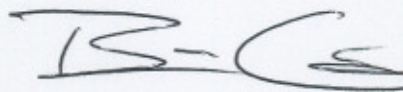
Sincerely,
Blue Rock Environmental, Inc.

Prepared by:

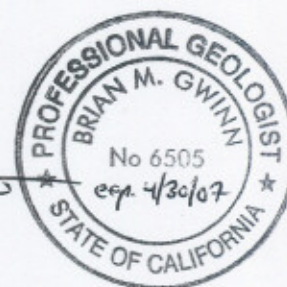


Andrew LoCicero
Project Scientist

Reviewed by:



Brian Gwinn, PG
Principal Geologist



Attachments

Table 1 Groundwater Elevations and Analytical Results
Table 2 Well Construction Details
Figure 1 Site Location Map
Figure 2 Site Plan
Figure 3 Groundwater Elevation and Gradient 7/1/05
Figure 4 Dissolved-Phase TPHg Distribution 7/1/05
Figure 5 Dissolved-phase MTBE Distribution 7/1/05
Chart 1 Concentrations of Dissolved-Phase MTBE vs. Time in MW-2
Chart 2 Concentrations of Dissolved-Phase TPHg vs. Time in MW-2
Chart 3 Concentrations of Dissolved-Phase MTBE vs. Time in MW-5
Chart 4 Depth to Water Vs. TPHg Concentrations for MW-2
Chart 5 Depth to Water Vs. TPHg Concentrations for MW-5
Chart 6 Dissolved-Phase MTBE Mass vs. Time
Chart 7 Dissolved-Phase TPHg Mass vs. Time
Dissolved-Phase Mass Calculations - Fourth Quarter 2003 to Third Quarter 2005
Blue Rock Gauge/Purge Calculations and Well Purging Data field sheets
Laboratory Analytical Report and Chain-of-Custody Form

CC: Beverly Alto
7803 Myrtle Avenue
Eureka, CA 95503

Jerry Avila
7769 Myrtle Avenue
Eureka, CA 95503

Table 1
GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
Indianola Market
7769 Myrtle Avenue
Eureka, California
Project No. NC-18

Well No.	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Methanol (µg/L)
MW-1 Screen 3'-20'	11/20/01	99.99	5.15	94.84	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<50
	2/2/02	99.99	2.58	97.41	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<50
	5/2/02	99.99	2.67	97.32	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<50
	8/2/02	99.99	5.07	94.92	<50	<50	<0.5	<0.5	<0.5	<0.5	0.99	<0.5	<0.5	<0.5	<5	--	--
	(10/15/02)	32.22	6.77	25.45	<50	<50	<0.5	<0.5	<0.5	<0.5	0.57	<0.5	<0.5	<0.5	<5	--	--
	1/13/03	32.22	2.03	30.19	<50	<50	<0.5	<0.5	<0.5	<0.5	0.51	<0.5	<0.5	<0.5	<5	--	--
	4/1/03	32.22	1.33	30.89	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	7/10/03	32.22	4.33	27.89	<50	66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	10/2/03	32.22	7.07	25.15	<50	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	1/5/04	32.22	3.38	28.84	<50	58	<0.5	<0.5	<0.5	<0.5	2.9	<0.5	<0.5	<0.5	<5	--	--
	4/6/04	32.22	2.85	29.37	<50	81	<0.5	<0.5	<0.5	<0.5	3.2	<0.5	<0.5	<0.5	<5	--	--
	7/1/04	32.22	4.92	27.30	<50	<50	<0.5	<0.5	<0.5	<0.5	3.6	<0.5	<0.5	<0.5	<5	--	--
	10/1/04	32.22	7.04	25.18	<50	--	<0.5	<0.5	<0.5	<0.5	1.5	--	--	--	--	--	--
	1/4/05	32.22	2.05	30.17	<50	--	<0.5	<0.5	<0.5	<0.5	1.6	--	--	--	--	--	--
	4/18/05	32.22	2.40	29.82	<50	--	<0.5	<0.5	<0.5	<0.5	1.1	--	--	--	--	--	--
	7/1/05	32.22	3.15	29.07	<50	--	<0.5	<0.5	<0.5	<0.5	0.76	--	--	--	--	--	--
MW-2 Screen 3'-20'	11/20/01	99.15	4.92	94.23	300	<200	<2	<2	<2	<2	1,100	<2	5.3	4	35	<20	<200
	2/2/02	99.15	2.31	96.84	1,400	<500	<5	<5	<5	<5	1,900	<5	5.5	5.4	63	<50	<500
	5/2/02	99.15	2.47	96.68	1,000	<350	3.1	<2.5	<2.5	<2.5	1,200	<2.5	5.8	5.5	33	--	--
	8/2/02	99.15	4.77	94.38	650	<400	<5	<5	<5	<5	2,300	<5	12	6.1	71	--	--
	(10/15/02)	31.33	6.49	24.84	73	<100	<0.5	<0.5	<0.5	<0.5	310	<0.5	1.9	0.84	7.7	--	--
	1/13/03	31.33	1.97	29.36	1,500	<800	2.6	<0.2	<0.2	3.2	1,300	<0.2	7.3	4.6	41	--	--
	4/1/03	31.33	2.07	29.26	1,000	<1,100	<2	<2	<2	2.8	940	<2	5.4	3.4	25 1	--	--
	7/10/03	31.33	4.09	27.24	1,100	<600	<2	<2	<2	<2	1,000	<2	5.8	4	25 1	--	--
	10/2/03	31.33	6.80	24.53	1,000	<800	<2.5	<2.5	<2.5	<2.5	1,100	<2.5	7.7	5	32 1	--	--
	1/5/04	31.33	2.76	28.57	1,300	<1,000	<1.5	<1.5	<1.5	<1.5	740	<1.5	<1.5	4	22	--	--
	4/6/04	31.33	2.58	28.75	280	120	<0.5	<0.5	<0.5	<0.5	120	<0.5	0.72	0.82	<5	--	--
	7/1/04	31.33	4.56	26.77	510	690	<1.5	<1.5	<1.5	<1.5	800	<1.5	7.10	2.4	27	--	--
	10/1/04	31.33	6.71	24.62	<50	<50 ²	<0.5	<0.5	<0.5	<0.5	130	--	--	--	--	--	--
	1/4/05	31.33	1.85	29.48	580	<80 ²	<1.5	<1.5	<1.5	<1.5	580	--	--	--	--	--	--
	4/18/05	31.33	2.08	29.25	620	<500	<1.0	<1.0	<1.0	<1.0	510	--	--	--	--	--	--
	7/1/05	31.33	2.57	28.76	420	<400	<0.5	<0.5	<0.5	<0.5	260	--	--	--	--	--	--
MW-3 Screen 3'-20'	11/20/01	99.30	3.36	95.94	<50	<50	<0.5	<0.5	<0.5	<0.5	100	<0.5	0.85	<0.5	8.1	<5	<50
	2/2/02	99.30	1.56	97.74	<50	<50	<0.5	<0.5	<0.5	<0.5	2.4	<0.5	<0.5	<0.5	<5	<5	<50
	5/2/02	99.30	1.67	97.63	<50	<50	<0.5	<0.5	<0.5	<0.5	6	<0.5	<0.5	<0.5	<5	--	--
	8/2/02	99.30	3.37	95.93	<50	<50	<0.5	<0.5	<0.5	<0.5	89	<0.5	0.65	<0.5	5.3	--	--
	(10/15/02)	31.47	5.06	26.41	<50	<50	<0.5	<0.5	<0.5	<0.5	94	<0.5	0.79	<0.5	<5	--	--
	1/13/03	31.47	1.44	30.03	<50	56	<0.5	<0.5	<0.5	<0.5	340	<0.5	2.1	<0.5	27	--	--
	4/1/03	31.47	1.37	30.10	51	<50	<0.5	<0.5	<0.5	<0.5	280	<0.5	2	<0.5	18	--	--
	7/10/03	31.47	2.80	28.67	<50	89	<0.5	<0.5	<0.5	<0.5	89	<0.5	0.84	<0.5	6.4	--	--

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Indianola Market
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Project No. NC-18

Well No.	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Methanol (µg/L)
MW-3 Screen 3'-20'	10/2/03	31.47	5.41	26.06	<50	150	<0.5	<0.5	<0.5	<0.5	110	<0.5	0.71	<0.5	<5	--	--
	1/5/04	31.47	2.46	29.01	<50	<50	<0.5	<0.5	<0.5	<0.5	11	<0.5	<0.5	<0.5	<5	--	--
	4/6/04	31.47	1.71	29.76	<50	<50	<0.5	<0.5	<0.5	<0.5	0.73	<0.5	<0.5	<0.5	<5	--	--
	7/1/04	31.47	3.16	28.31	<50	<50	<0.5	<0.5	<0.5	<0.5	80	<0.5	<0.5	<0.5	<5	--	--
	10/1/04	31.47	5.26	26.21	<50	--	<0.5	<0.5	<0.5	<0.5	61	--	--	--	--	--	--
	1/4/05	31.47	1.43	30.04	<50	--	<0.5	<0.5	<0.5	<0.5	9	--	--	--	--	--	--
	4/18/05	31.47	1.48	29.99	<50	--	<0.5	<0.5	<0.5	<0.5	2.2	--	--	--	--	--	--
	7/1/05	31.47	1.01	30.46	<50	--	<0.5	<0.5	<0.5	<0.5	1.4	--	--	--	--	--	--
MW-4 Screen 3'-20'	10/15/02	32.74	4.99	27.75	<50	<50	<0.5	<0.5	<0.5	<0.5	4.1	<0.5	<0.5	<0.5	<5	--	--
	1/13/03	32.74	1.41	31.33	<50	<50	<0.5	<0.5	<0.5	<0.5	0.92	<0.5	<0.5	<0.5	<5	--	--
	4/1/03	32.74	1.45	31.29	<50	<50	<0.5	<0.5	<0.5	<0.5	0.70	<0.5	<0.5	<0.5	<5	--	--
	7/10/03	32.74	2.82	29.92	<50	<50	<0.5	<0.5	<0.5	<0.5	7.9	<0.5	<0.5	<0.5	<5	--	--
	10/2/03	32.74	5.32	27.42	<50	99	<0.5	<0.5	<0.5	<0.5	6.9	<0.5	<0.5	<0.5	<5	--	--
	1/5/04	32.74	2.60	30.14	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	4/6/04	32.74	1.88	30.86	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	7/1/04	32.74	3.19	29.55	<50	<50	<0.5	<0.5	<0.5	<0.5	17	<0.5	<0.5	<0.5	<5	--	--
	10/1/04	32.74	5.16	27.58	<50	--	<0.5	<0.5	<0.5	<0.5	6.3	--	--	--	--	--	--
	1/4/05	32.74	1.52	31.22	<50	--	<0.5	<0.5	<0.5	<0.5	0.68	--	--	--	--	--	--
	4/18/05	32.74	1.66	31.08	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	7/1/05	32.74	1.98	30.76	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
MW-5 Screen 5'-20'	10/15/02	29.71	7.11	22.60	<50	<50	<0.5	<0.5	<0.5	<0.5	32	<0.5	<0.5	<0.5	<5	--	--
	1/13/03	29.71	0.66	29.05	<50	<50	<0.5	<0.5	<0.5	<0.5	31	<0.5	<0.5	<0.5	<5	--	--
	4/1/03	29.71	1.75	27.96	<50	<50	<0.5	<0.5	<0.5	<0.5	35	<0.5	<0.5	<0.5	<5	--	--
	7/10/03	29.71	4.60	25.11	<50	<50	<0.5	<0.5	<0.5	<0.5	20	<0.5	<0.5	<0.5	<5	--	--
	10/2/03	29.71	7.45	22.26	<50	<50	<0.5	<0.5	<0.5	<0.5	9	<0.5	<0.5	<0.5	<5	--	--
	1/5/04	29.71	2.31	27.40	<50	85	<0.5	<0.5	<0.5	<0.5	29	<0.5	<0.5	<0.5	<5	--	--
	4/6/04	29.71	2.53	27.18	<50	68	<0.5	<0.5	<0.5	<0.5	38	<0.5	<0.5	<0.5	<5	--	--
	7/1/04	29.71	4.95	24.76	86	86	<0.5	<0.5	<0.5	<0.5	170	<0.5	1.4	0.97	17	--	--
	10/1/04	29.71	7.26	22.45	<50	<50 ²	<0.5	<0.5	<0.5	<0.5	2	--	--	--	--	--	--
	1/4/05	29.71	0.78	28.93	<50	<50 ²	<0.5	<0.5	<0.5	<0.5	5.3	--	--	--	--	--	--
	4/18/05	29.71	2.02	27.69	<50	<50	<0.5	<0.5	<0.5	<0.5	8.2	--	--	--	--	--	--
	7/1/05	29.71	3.27	26.44	<50	<50	<0.5	<0.5	<0.5	<0.5	92	--	--	--	--	--	--

Table 1
GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
Indianola Market
7769 Myrtle Avenue
Eureka, California
Project No. NC-18

Well No.	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Methanol (µg/L)
Dom - 1	4/1/03	(Domestic well located at 7711 Myrtle Ave.)			<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	1/4/05				<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	MCL				--	--	1	150	300	1,750	5						
	Taste & odor threshold				5	100	--	42	29	17	5						
	NCRWQCB cleanup goals				<50	100	0.50	42	29	17	5						

Notes :

TOC: Top of casing referenced to mean sea level (4.33 NAVD 88 (NGS LV 0638) SS rod E1401 1988

Sample date in parentheses indicates new wellhead survey per Geotracker

DTW: Depth to water as referenced to benchmark.

GWE: Ground water elevation as referenced to benchmark

µg/L=micrograms per liter

"--": Not analyzed, available, or applicable

MCL: Maximum contaminant level, an enforceable drinking water standard

Taste & odor threshold: A drinking water standard

1. Tert Butanol results may be biased high (see case narrative in laboratory report)

2. TPHd analysis performed using silica gel cleanup

TPHg: Total Petroleum Hydrocarbons as Gasoline by Method 5030/8260B

TPHd: Total Petroleum Hydrocarbons as Diesel by Method 3510/8015M

MTBE: Methyl Tertiary Butyl Ether by Method 8260B

DIPE: Di-Isopropyl Ether by Method 8260B

TAME: Tertiary Amyl Methyl Ether by method 8260B

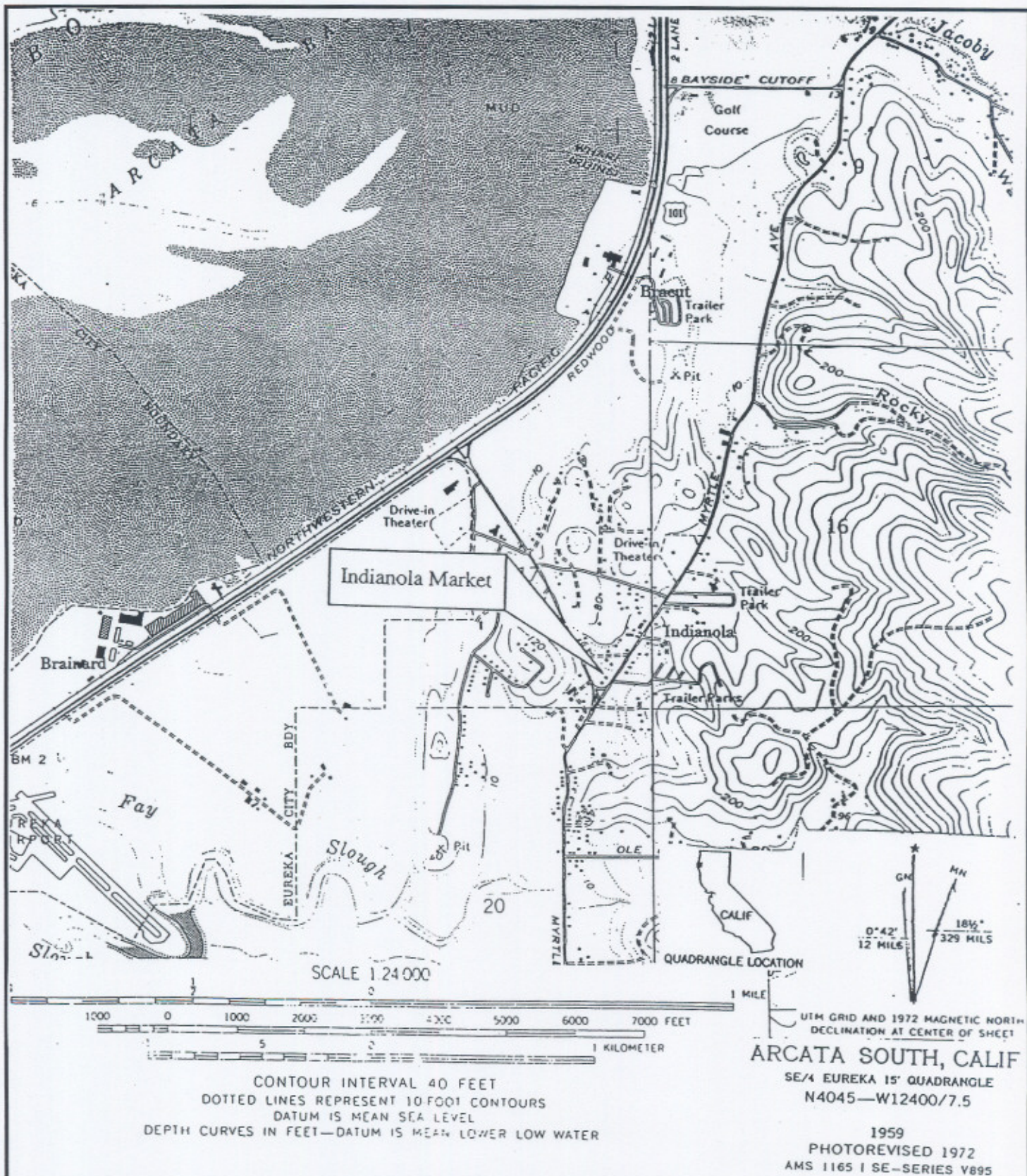
ETBE: Ethyl Tertiary Butyl Ether by Method 8260B

TBA: Tertiary Butyl Alcohol by Method 8260B

NCWQCB: North Coast Water Quality Control Board

Table 2
Well Construction Details
 Indianola Market
 7769 Myrtle Avenue
 Eureka, CA
 Project # NC-18

Well Identification	Date Installed	Installed by	Casing Diameter (inches)	Total Depth (feet)	Blank Interval (feet)	Screened Interval (feet)	Slot Size (inches)	Filter Pack (feet)	Bentonite Seal (feet)	Cement (feet)
MW-1	10/10/01	Clearwater	2	20	0-3	3-20	0.02	2-20	1-2	0-1
MW-2	10/10/01	Clearwater	2	20	0-3	3-20	0.02	2-20	1-2	0-1
MW-3	10/10/01	Clearwater	2	20	0-3	3-20	0.02	2-20	1-2	0-1
MW-4	10/7/02	Clearwater	2	20	0-3	3-20	0.02	2-20	1-2	0-1
MW-5	10/7/02	Clearwater	2	20	0-3	5-20	0.02	2-20	1-2	0-1



Site Location Map

Indianola Market
 7769 Myrtle Avenue
 Eureka, California

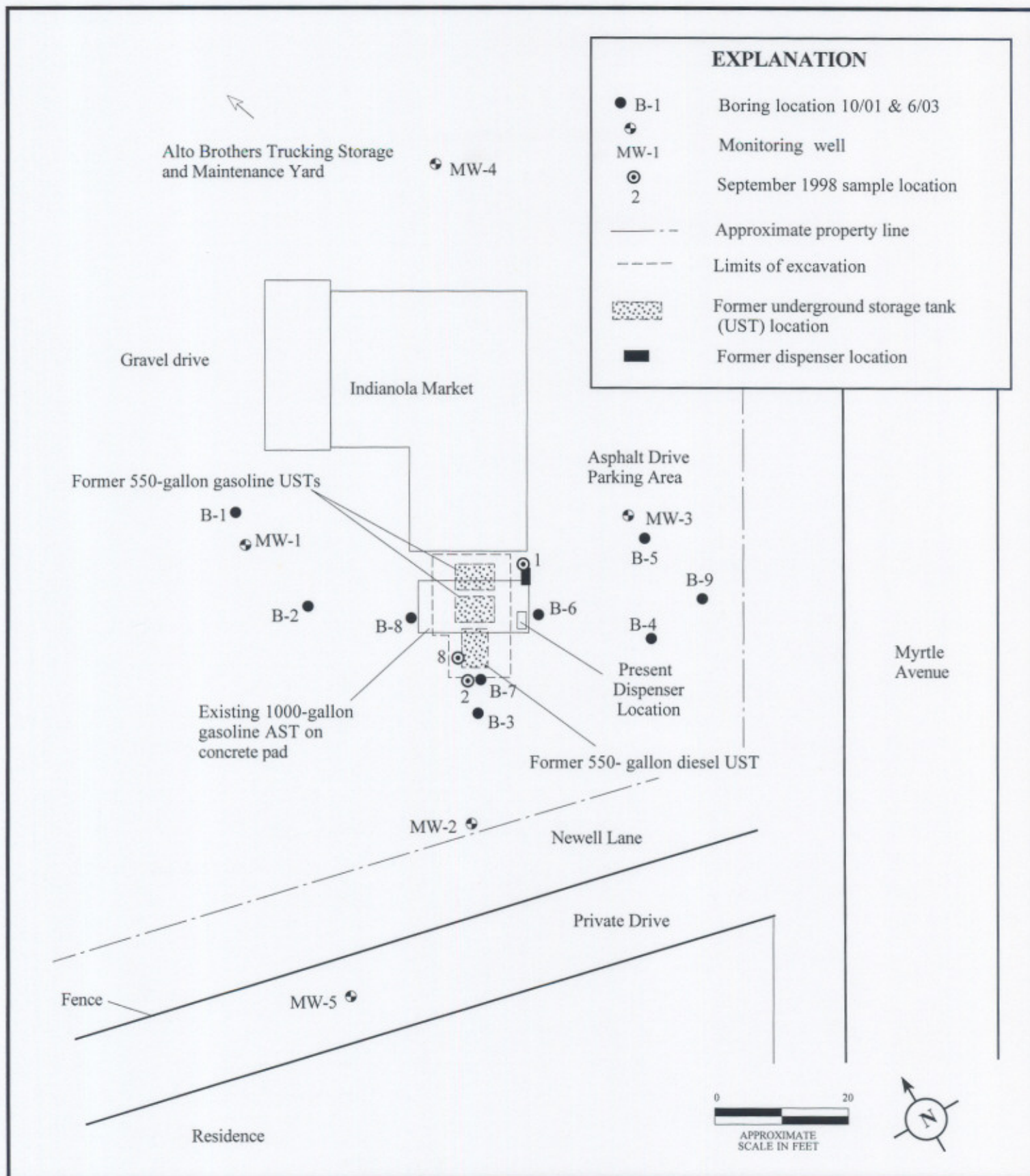


BLUE ROCK
 ENVIRONMENTAL, INC.

Project No.
 NC-18

Date
 7/05

Figure
 1



SITE PLAN
 Indianola Market
 7769 Myrtle Ave.
 Eureka, California










BLUE ROCK
 ENVIRONMENTAL, INC.

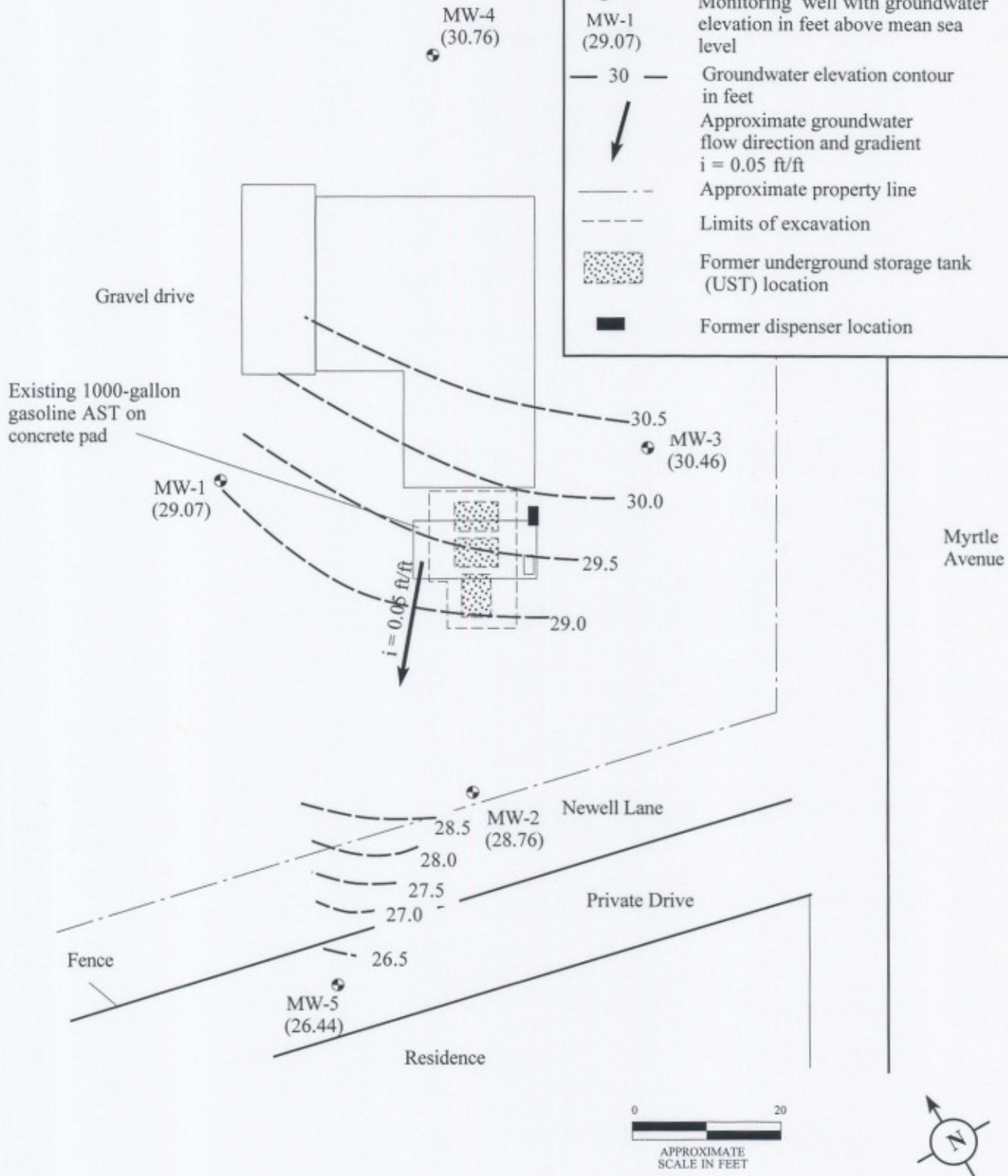
Project No.
 NC-18

Report Date
 7/05

Figure
 2

EXPLANATION

-  MW-1 (29.07) Monitoring well with groundwater elevation in feet above mean sea level
-  30 Groundwater elevation contour in feet
-  Approximate groundwater flow direction and gradient $i = 0.05 \text{ ft/ft}$
-  Approximate property line
-  Limits of excavation
-  Former underground storage tank (UST) location
-  Former dispenser location



GROUNDWATER ELEVATION MAP - 7/1/05

Indianola Market
7769 Myrtle Ave.
Eureka, California

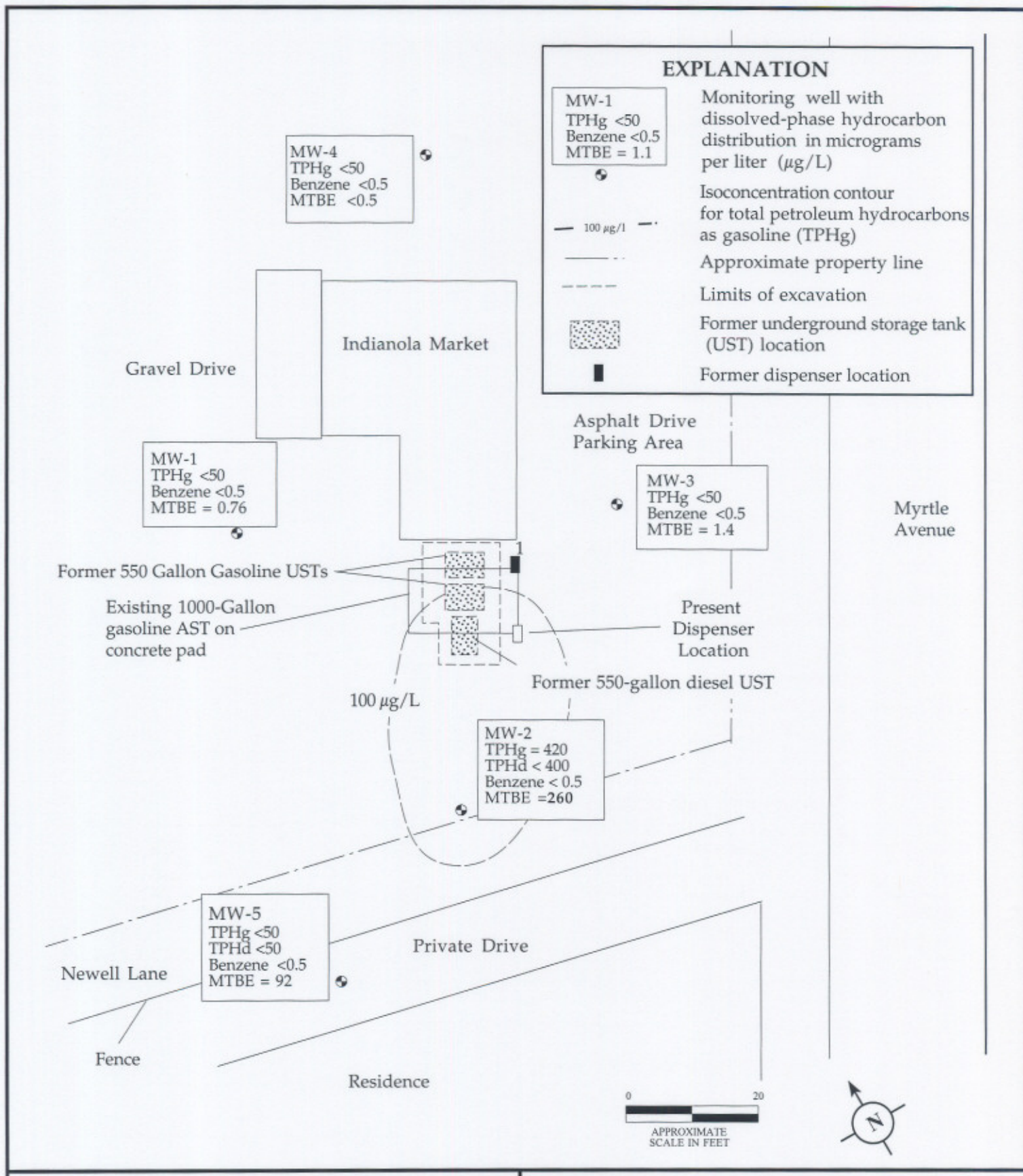


BLUE ROCK
ENVIRONMENTAL, INC.

Project No.
NC-18

Report Date
7/05

Figure
3



DISSOLVED-PHASE TPHg DISTRIBUTION - 7/1/05

Indianola Market
7769 Myrtle Ave.
Eureka, California

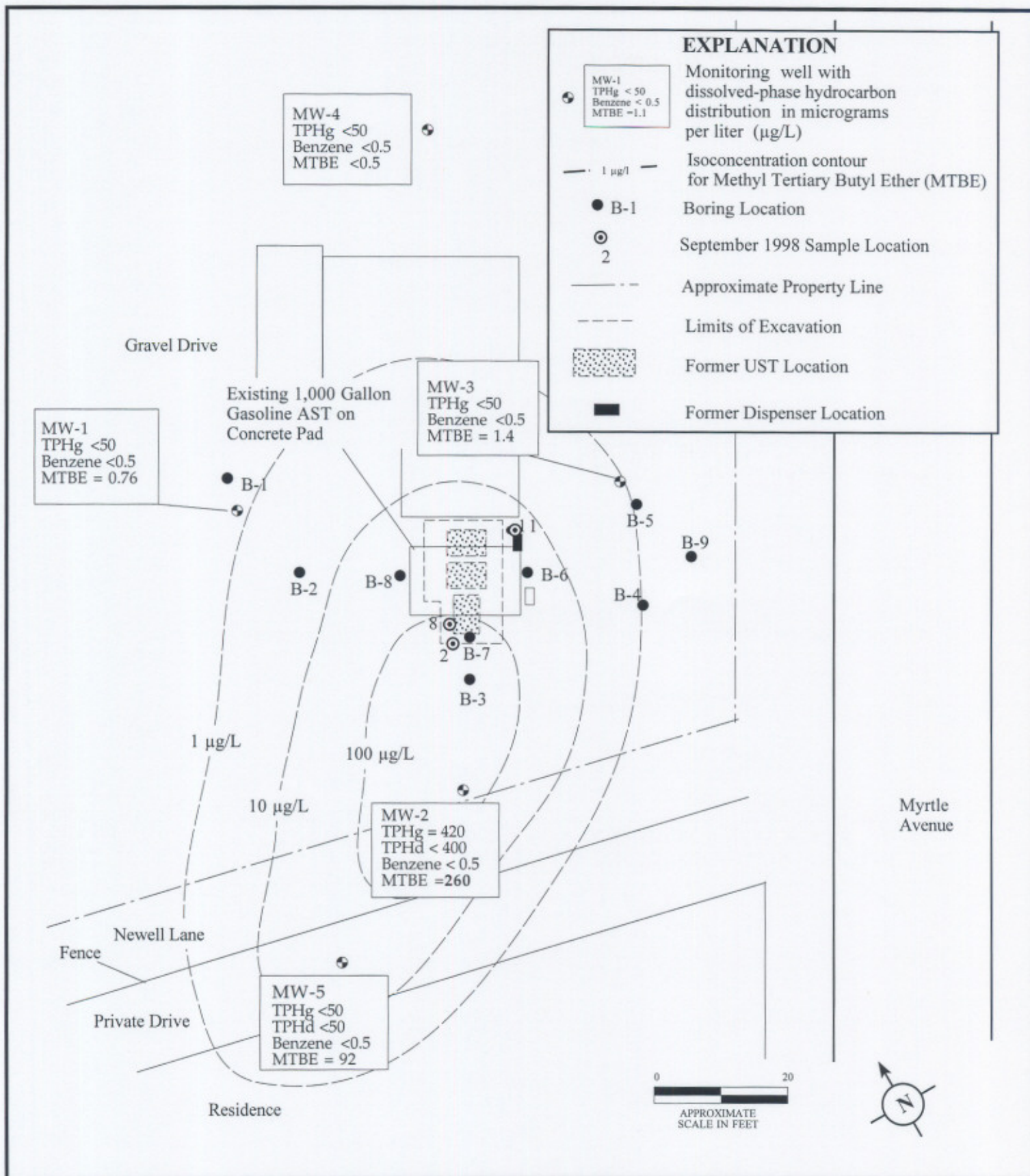


BLUE ROCK
ENVIRONMENTAL, INC.

Project No.
NC-18

Report Date
7/05

Figure
4



DISSOLVED-PHASE MTBE DISTRIBUTION - 7/1/05

Indianola Market
7769 Myrtle Ave.
Eureka, California



BLUE ROCK
ENVIRONMENTAL, INC.

Project No.
NC-18

Report Date
7/05

Figure
5

Chart 1
Indianola Market
7769 Myrtle Avenue
Eureka, California
Project No. NC-18

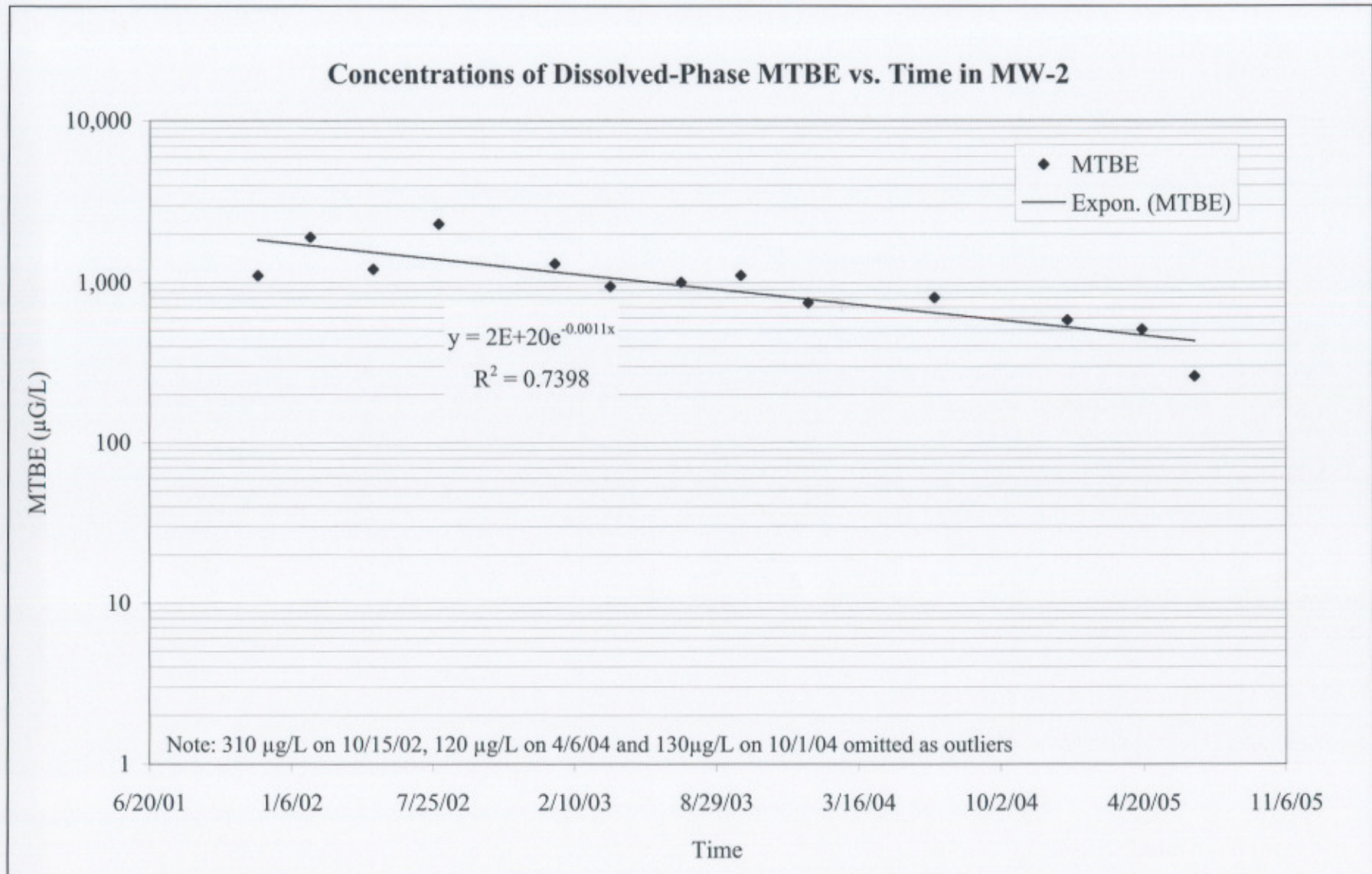


Chart 2
Indianola Market
7769 Myrtle Avenue
Eureka, California
Project No. NC-18

Concentrations of Dissolved-Phase TPHg vs. Time in MW-2

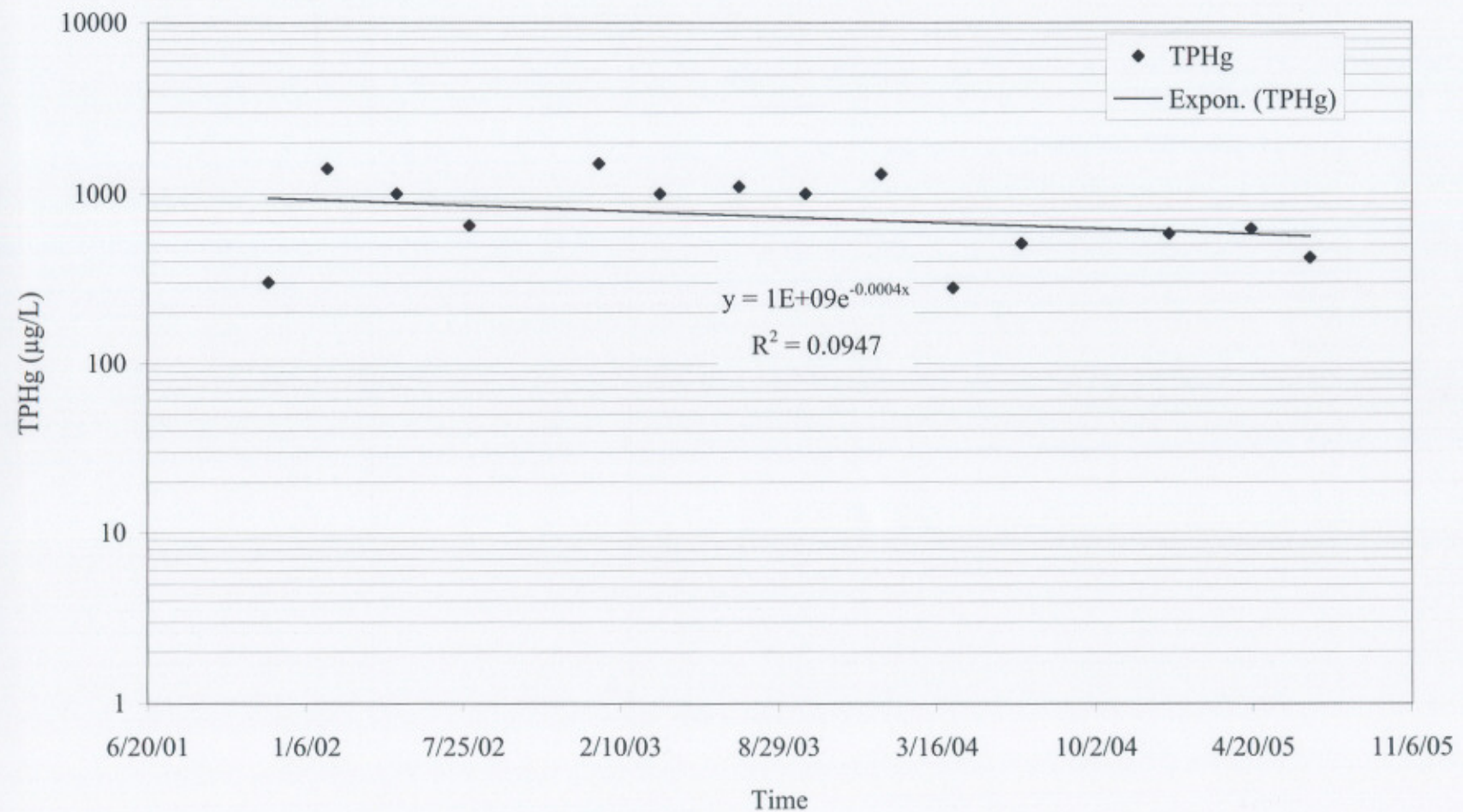


Chart 3
Indianola Market
7769 Myrtle Avenue
Eureka, California
Project No. NC-18

Concentrations of Dissolved-Phase MTBE vs. Time in MW-5

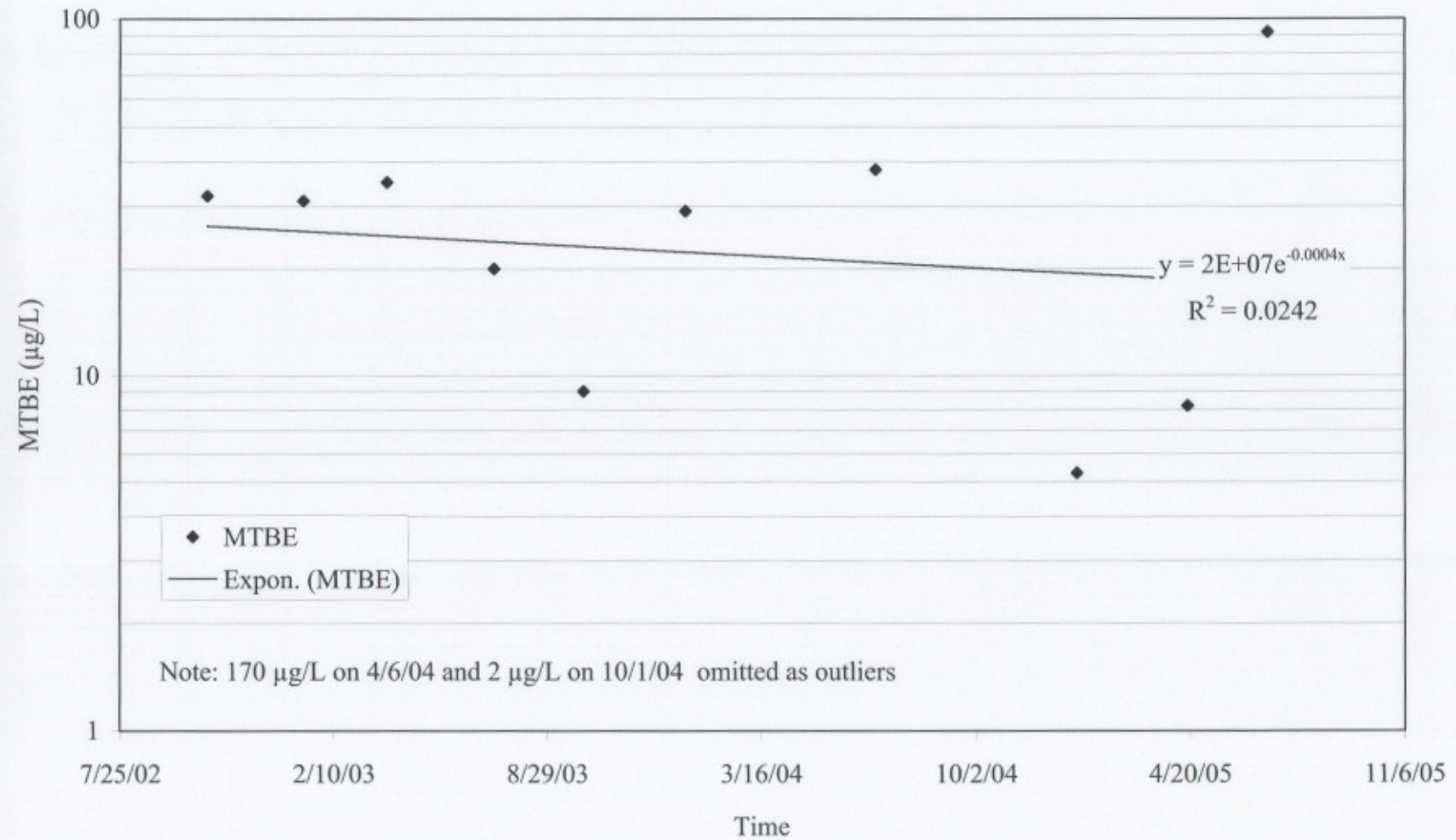


Chart 4
Indianola Market
7769 Myrtle Avenue
Eureka, California
Project No. NC-18

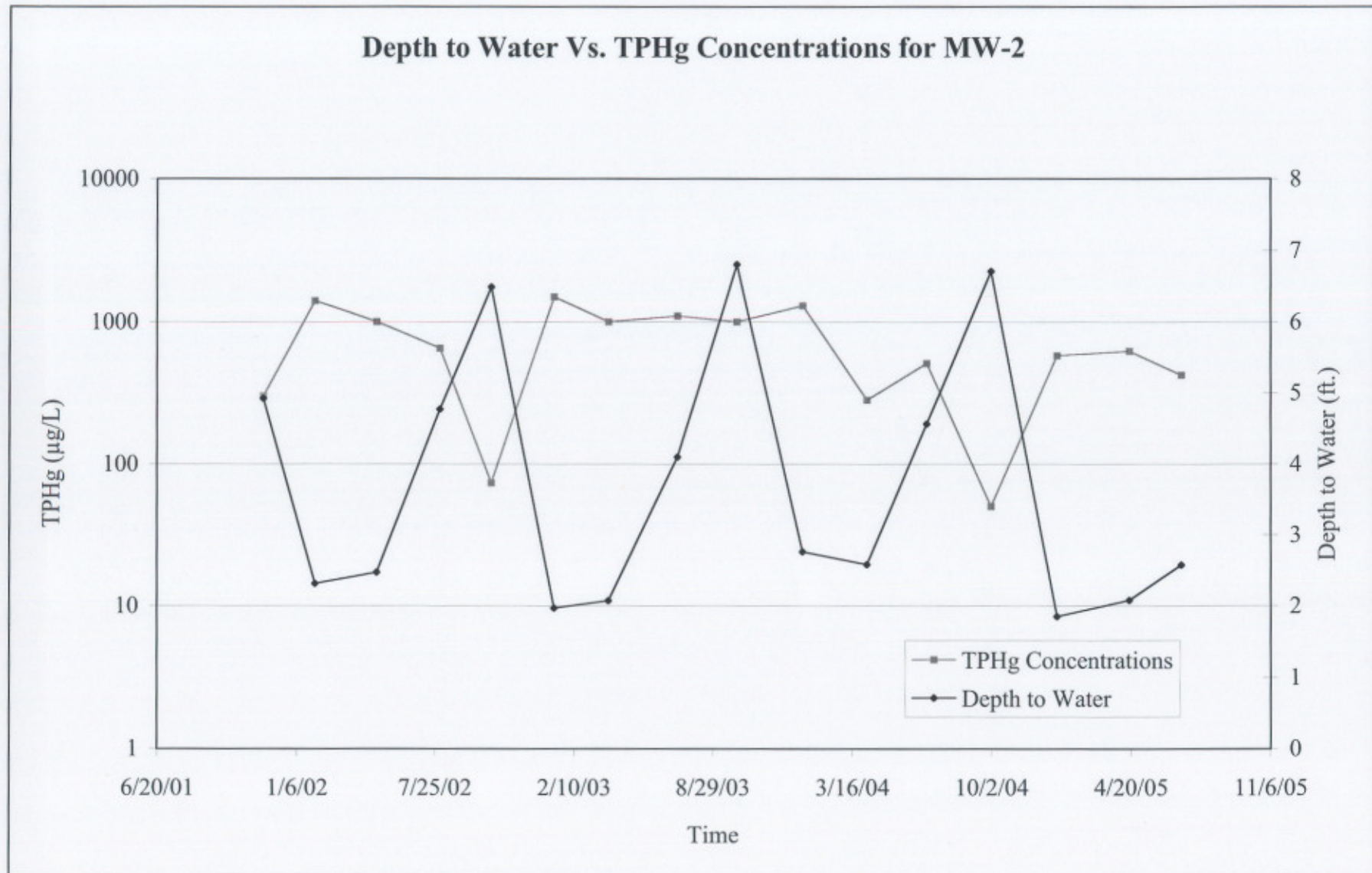


Chart 5
Indianola Market
7769 Myrtle Avenue
Eureka, California
Project No. NC-18

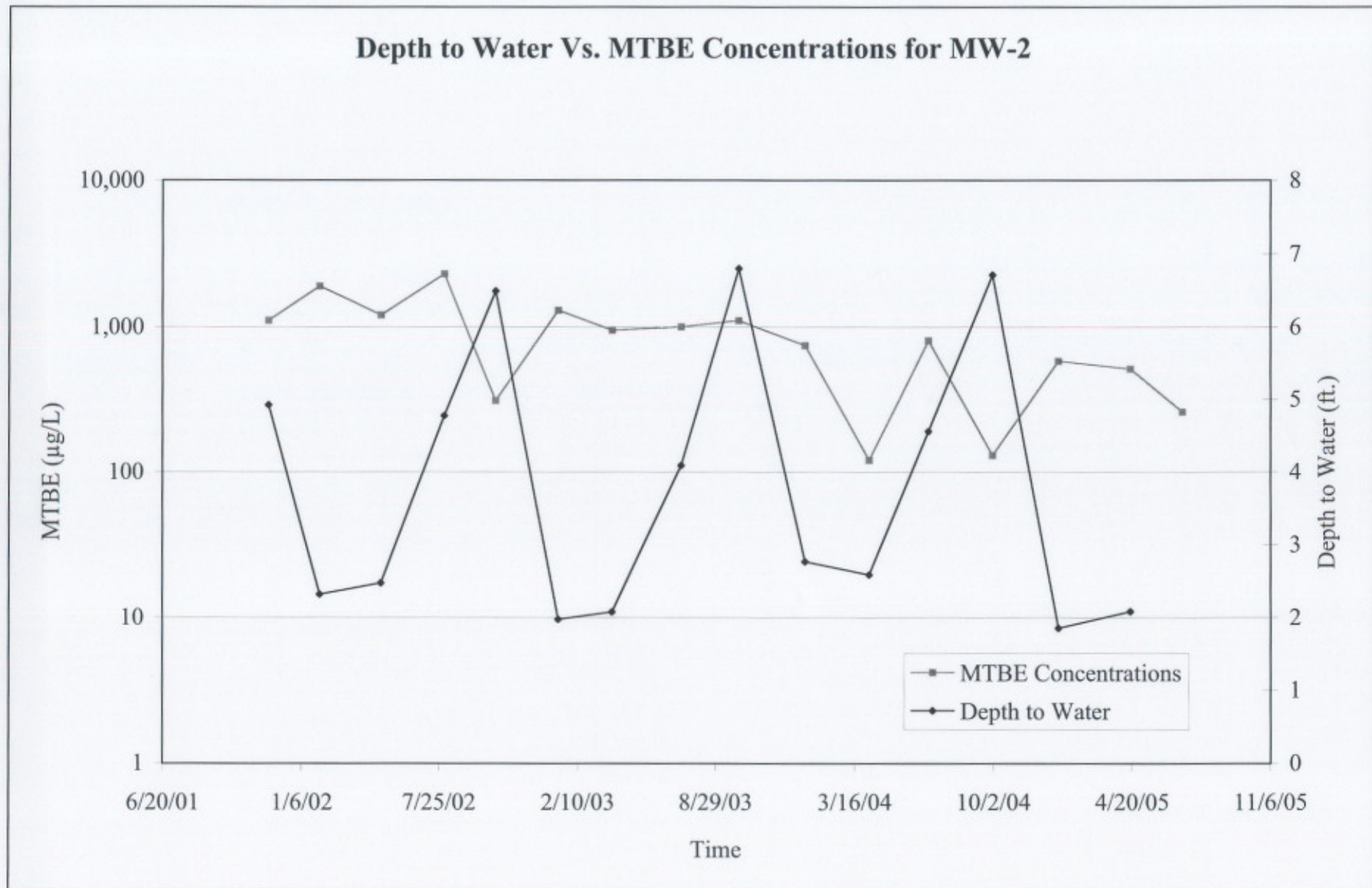


Chart 6
Indianola Market
7769 Myrtle Avenue
Eureka, California
Project No. NC-18

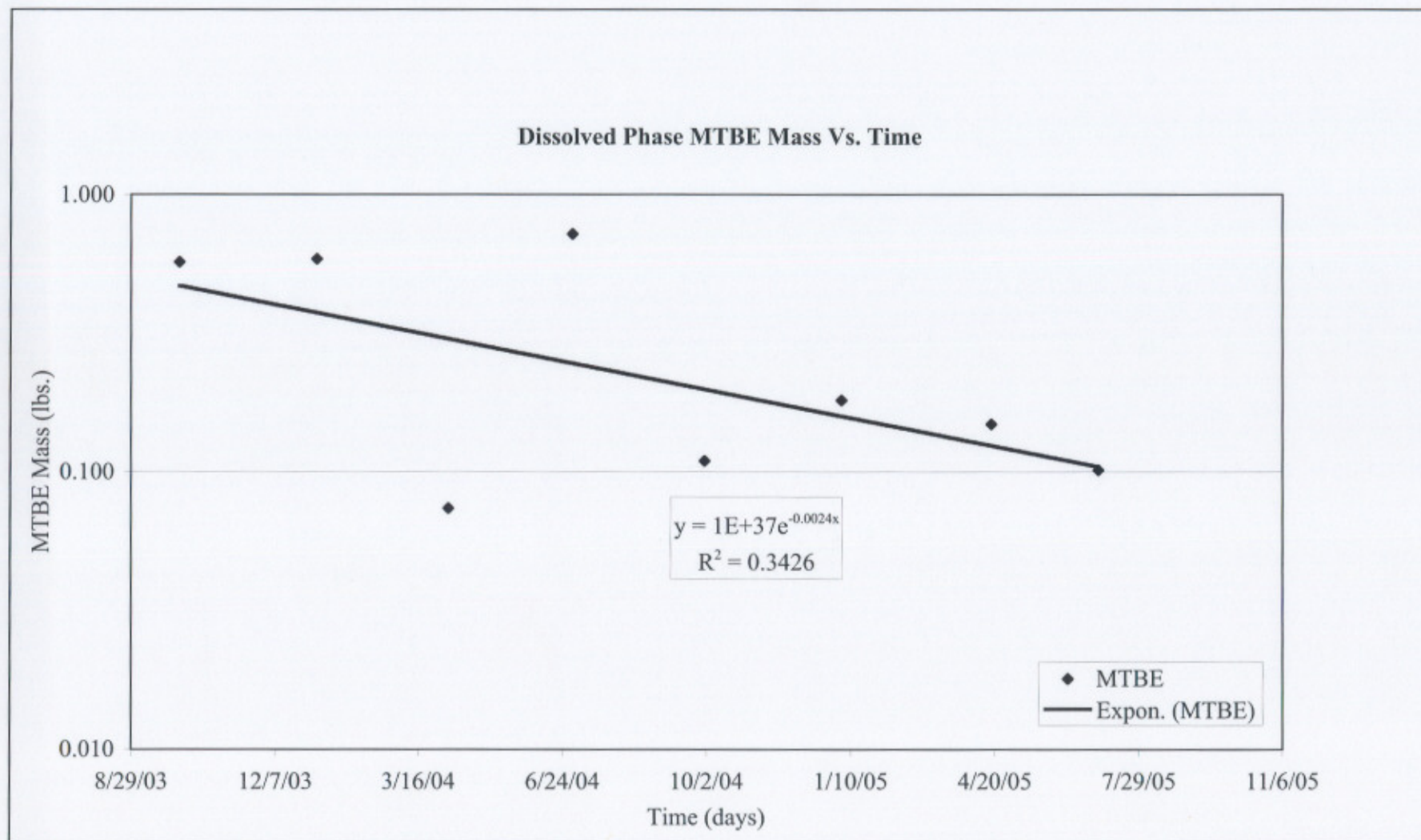
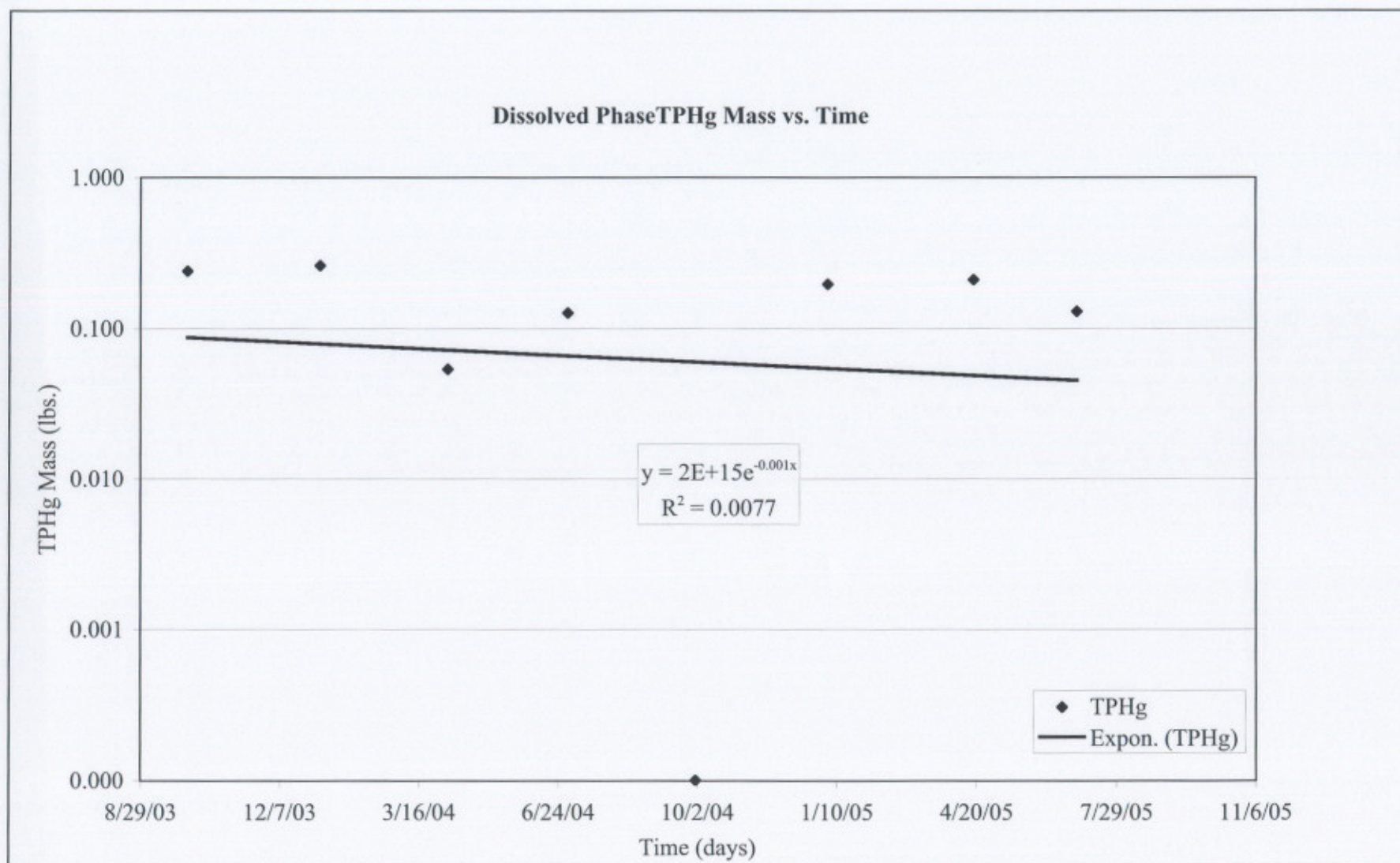


Chart 7
Indianola Market
7769 Myrtle Avenue
Eureka, California
Project No. NC-18



Calculation of Residual Dissolved-Phase Contaminant Mass (Fourth Quarter 2003)
Indianola Market, Eureka, CA

Residual TPHg (zone 1) TPHg concentrations 1,000µg/L or greater

TPHg mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	TPHg mass (ft ³ -mg/L)	TPHg mass (lb)
1.100	386	15	0.35	2,027	2,229	0.139
Total TPHg (lb)						0.139
Total TPHg (gal)						0.02

Residual TPHg (zone 2) TPHg concentrations 100µg/L to 1,000µg/L

TPHg mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	TPHg mass (ft ³ -mg/L)	TPHg mass (lb)
0.320	980	15	0.35	5,145	1,646.4	0.103
Total TPHg (lb)						0.103
Total TPHg (gal)						0.017

Total TPHg Mass (lb)	0.2414
Total TPHg Vol. (gal.)	0.0396

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

TPHg mass (ft³-mg/L) = V (ft³) * TPH conc. (mg/L)

TPHg mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

TPHg vol (gal) = TPHg mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Calculation of Residual Dissolved-Phase Contaminant Mass (Fourth Quarter 2003)
Indianola Market, Eureka, CA

Residual TPHg (zone 1) TPHg concentrations 1,000µg/L or greater

TPHg mean	A	h	n	V	TPHg mass	TPHg mass
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Residual MTBE (zone 1) MTBE concentrations 1,000µg/L or greater

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
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1.000	724	15	0.35	3,801	3,801	0.237
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Total MTBE (lb)	0.237
Total MTBE (gal)	0.04

Residual MTBE (zone 2) MTBE concentrations 100µg/L to 1,000 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
---------------------	-------------------------	-----------	---	-------------------------	--------------------------------------	-------------------

0.320	2,908	15	0.35	15,267	4,885.4	0.30427
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Total MTBE (lb)	0.30427
Total MTBE (gal)	0.0499

Residual MTBE (zone 3) MTBE concentrations 10µg/L to 100 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
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0.032	2,682	15	0.35	14,081	450.6	0.02806
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Total MTBE (lb)	0.02806
Total MTBE (gal)	0.0046

Residual MTBE (zone 1) MTBE concentrations 1 µg/L to 10µg/L

MTBE conc. (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
----------------------	-------------------------	-----------	---	-------------------------	--------------------------------------	-------------------

0.00320	3,625	10	0.35	12,688	41	0.0025
---------	-------	----	------	--------	----	--------

Total MTBE (lb)	0.00253
Total MTBE (gal)	0.0004

Total MTBE Mass (lb)	0.5716
Total MTBE Vol. (gal.)	0.0937

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

MTBE mass (ft³-mg/L) = V (ft³) * MTBE conc. (mg/L)

MTBE mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

MTBE vol (gal) = MTBE mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Calculation of Residual Dissolved-Phase Contaminant Mass (First Quarter 2004)

Indianola Market, Eureka, CA

Residual TPHg (zone 1) TPHg concentrations 1,000µg/L or greater

TPHg mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	TPHg mass (ft ³ -mg/L)	TPHg mass (lb)
1.300	386	15	0.35	2,027	2,634	0.164
Total TPHg (lb)						0.164
Total TPHg (gal)						0.03

Residual TPHg (zone 2) TPHg concentrations 100µg/L to 1,000µg/L

TPHg mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	TPHg mass (ft ³ -mg/L)	TPHg mass (lb)
0.320	930	15	0.35	4,883	1,562.4	0.097
Total TPHg (lb)						0.097
Total TPHg (gal)						0.016

Total TPHg Mass (lb)	0.2614
Total TPHg Vol. (gal.)	0.0429

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

TPHg mass (ft³-mg/L) = V (ft³) * TPH conc. (mg/L)

TPHg mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

TPHg vol (gal) = TPHg mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Calculation of Residual Dissolved-Phase Contaminant Mass (First Quarter 2004)

Indianola Market, Eureka, CA

Residual MTBE (zone 1) MTBE concentrations 100µg/L or greater

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.740	2,316	15	0.35	12,159	8,998	0.560
Total MTBE (lb)						0.560
Total MTBE (gal)						0.09

Residual MTBE (zone 2) MTBE concentrations 10 µg/L to 100 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.032	2,323	15	0.35	12,196	390.3	0.02431
Total MTBE (lb)						0.02431
Total MTBE (gal)						0.0040

Residual MTBE (zone 3) MTBE concentrations 1 µg/L to 10 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.001	3,483	15	0.35	18,286	18.3	0.00114
Total MTBE (lb)						0.00114
Total MTBE (gal)						0.0002

Total MTBE Mass (lb)	0.5858
Total MTBE Vol. (gal.)	0.0960

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

MTBE mass (ft³-mg/L) = V (ft³) * MTBE conc. (mg/L)

MTBE mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

MTBE vol (gal) = MTBE mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Calculation of Residual Dissolved-Phase Contaminant Mass (Second Quarter 2004)
Indianola Market, Eureka, CA

Residual TPHg (zone 2) TPHg concentrations 100µg/L to 1,000µg/L

TPHg mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	TPHg mass (ft ³ -mg/L)	TPHg mass (lb)
0.280	584	15	0.35	3,066	858.5	0.053
Total TPHg (lb)						0.053
Total TPHg (gal)						0.009
Total TPHg Mass (lb)						0.0535
Total TPHg Vol. (gal.)						0.0088

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

TPHg mass (ft³-mg/L) = V (ft³) * TPH conc. (mg/L)

TPHg mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

TPHg vol (gal) = TPHg mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Residual MTBE (zone 1) MTBE concentrations 100µg/L or greater

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.120	1,082	15	0.35	5,681	682	0.042
Total MTBE (lb)						0.042
Total MTBE (gal)						0.01

Calculation of Residual Dissolved-Phase Contaminant Mass (Second Quarter 2004)
Indianola Market, Eureka, CA

Residual MTBE (zone 2) MTBE concentrations 10 µg/L to 100 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.032	2,696	15	0.35	14,154	452.9	0.02821
Total MTBE (lb)						0.02821
Total MTBE (gal)						0.0046

Residual MTBE (zone 3) MTBE concentrations 1 µg/L to 10 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.003	2,683	15	0.35	14,086	45.1	0.00281
Total MTBE (lb)						0.00281
Total MTBE (gal)						0.0005

Total MTBE Mass (lb)	0.0735
Total MTBE Vol. (gal.)	0.0120

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

MTBE mass (ft³-mg/L) = V (ft³) * MTBE conc. (mg/L)

MTBE mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

MTBE vol (gal) = MTBE mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Calculation of Residual Dissolved-Phase Contaminant Mass (Third Quarter 2004)
Indianola Market, Eureka, CA

Residual TPHg (zone 2) TPHg concentrations 100µg/L to 1,000µg/L

TPHg mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	TPHg mass (ft ³ -mg/L)	TPHg mass (lb)
0.510	764	15	0.35	4,011	2,045.6	0.127

Total TPHg (lb)	0.127
Total TPHg (gal)	0.021

Total TPHg Mass (lb)	0.1274
Total TPHg Vol. (gal.)	0.0209

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

TPHg mass (ft³-mg/L) = V (ft³) * TPH conc. (mg/L)

TPHg mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

TPHg vol (gal) = TPHg mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Residual MTBE (zone 1) MTBE concentrations 100µg/L or greater

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.800	2,562	15	0.35	13,451	10,760	0.670

Total MTBE (lb)	0.670
Total MTBE (gal)	0.11

Calculation of Residual Dissolved-Phase Contaminant Mass (Third Quarter 2004)
Indianola Market, Eureka, CA

Residual TPHg (zone 2) TPHg concentrations 100µg/L to 1,000µg/L

Residual MTBE (zone 2) MTBE concentrations 10 µg/L to 100 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.032	4,500	15	0.35	23,625	756.0	0.04709
Total MTBE (lb)						0.04709
Total MTBE (gal)						0.0077

Residual MTBE (zone 3) MTBE concentrations 1 µg/L to 10 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.0032	4,129	15	0.35	21,677	69.4	0.00432
Total MTBE (lb)						0.00432
Total MTBE (gal)						0.0007

Total MTBE Mass (lb)	0.7216
Total MTBE Vol. (gal.)	0.1183

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

MTBE mass (ft³-mg/L) = V (ft³) * MTBE conc. (mg/L)

MTBE mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

MTBE vol (gal) = MTBE mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Calculation of Residual Dissolved-Phase Contaminant Mass (Fourth Quarter 2004)
Indianola Market, Eureka, CA

Residual MTBE (zone 1) MTBE concentrations 100µg/L or greater

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.130	839	15	0.35	4,405	573	0.036
Total MTBE (lb)						0.036
Total MTBE (gal)						0.01

Residual MTBE (zone 2) MTBE concentrations 10 µg/L to 100 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.032	1,817	15	0.35	9,539	305.3	0.01901
Total MTBE (lb)						0.01901
Total MTBE (gal)						0.0031

Residual MTBE (zone 3) MTBE concentrations 1 µg/L to 10 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.0032	51,800	15	0.35	271,950	870.2	0.05420
Total MTBE (lb)						0.05420
Total MTBE (gal)						0.0089

Total MTBE Mass (lb)	0.1089
Total MTBE Vol. (gal.)	0.0178

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

MTBE mass (ft³-mg/L) = V (ft³) * MTBE conc. (mg/L)

MTBE mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

MTBE vol (gal) = MTBE mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Calculation of Residual Dissolved-Phase Contaminant Mass (First Quarter 2005)

Indianola Market, Eureka, CA

Residual TPHg (zone 2) TPHg concentrations 100µg/L to 1,000µg/L

TPHg mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	TPHg mass (ft ³ -mg/L)	TPHg mass (lb)
0.580	1,040	15	0.35	5,460	3,166.8	0.197
Total TPHg (lb)						0.197
Total TPHg (gal)						0.032

Total TPHg Mass (lb)	0.1972
Total TPHg Vol. (gal.)	0.0323

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

TPHg mass (ft³-mg/L) = V (ft³) * TPH conc. (mg/L)

TPHg mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

TPHg vol (gal) = TPHg mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Residual MTBE (zone 1) MTBE concentrations 100µg/L or greater

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.580	846	15	0.35	4,442	2,576	0.160
Total MTBE (lb)						0.160
Total MTBE (gal)						0.03

Calculation of Residual Dissolved-Phase Contaminant Mass (First Quarter 2005)
Indianola Market, Eureka, CA

Residual MTBE (zone 2) MTBE concentrations 10 µg/L to 100 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.032	1,426	15	0.35	7,487	239.6	0.01492
Total MTBE (lb)						0.01492
Total MTBE (gal)						0.0024

Residual MTBE (zone 3) MTBE concentrations 1 µg/L to 10 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.0032	5,269	15	0.35	27,662	88.5	0.00551
Total MTBE (lb)						0.00551
Total MTBE (gal)						0.0009

Total MTBE Mass (lb)	0.1809
Total MTBE Vol. (gal.)	0.0297

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

MTBE mass (ft³-mg/L) = V (ft³) * MTBE conc. (mg/L)

MTBE mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

MTBE vol (gal) = MTBE mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Calculation of Residual Dissolved-Phase Contaminant Mass (Second Quarter 2005)
Indianola Market, Eureka, CA

Residual TPHg (zone 2) TPHg concentrations 100µg/L to 1,000µg/L

TPHg mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	TPHg mass (ft ³ -mg/L)	TPHg mass (lb)
0.620	1,040	15	0.35	5,460	3,385.2	0.211
Total TPHg (lb)						0.211
Total TPHg (gal)						0.035

Total TPHg Mass (lb)	0.2108
Total TPHg Vol. (gal.)	0.0346

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

TPHg mass (ft³-mg/L) = V (ft³) * TPH conc. (mg/L)

TPHg mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

TPHg vol (gal) = TPHg mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Residual MTBE (zone 1) MTBE concentrations 100µg/L or greater

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.510	777	15	0.35	4,079	2,080	0.130
Total MTBE (lb)						0.130
Total MTBE (gal)						0.02

Calculation of Residual Dissolved-Phase Contaminant Mass (Second Quarter 2005)
Indianola Market, Eureka, CA

Residual MTBE (zone 2) MTBE concentrations 10 µg/L to 100 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.032	1,476	15	0.35	7,749	248.0	0.01544
Total MTBE (lb)						0.01544
Total MTBE (gal)						0.0025

Residual MTBE (zone 3) MTBE concentrations 1 µg/L to 10 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.0032	3,116	15	0.35	16,359	52.3	0.00326
Total MTBE (lb)						0.00326
Total MTBE (gal)						0.0005

Total MTBE Mass (lb)	0.1483
Total MTBE Vol. (gal.)	0.0243

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

MTBE mass (ft³-mg/L) = V (ft³) * MTBE conc. (mg/L)

MTBE mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

MTBE vol (gal) = MTBE mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Calculation of Residual Dissolved-Phase Contaminant Mass (Third Quarter 2005)
Indianola Market, Eureka, CA

Residual TPHg (zone 2) TPHg concentrations 100µg/L to 1,000µg/L

TPHg mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	TPHg mass (ft ³ -mg/L)	TPHg mass (lb)
0.420	946	15	0.35	4,967	2,085.9	0.130
Total TPHg (lb)						0.130
Total TPHg (gal)						0.021

Total TPHg Mass (lb)	0.1299
Total TPHg Vol. (gal.)	0.0213

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

TPHg mass (ft³-mg/L) = V (ft³) * TPH conc. (mg/L)

TPHg mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

TPHg vol (gal) = TPHg mass (lb) / density of gasoline (assume 6.1 lb/gal.)

Residual MTBE (zone 1) MTBE concentrations 100µg/L or greater

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.260	921	15	0.35	4,835	1,257	0.078
Total MTBE (lb)						0.078
Total MTBE (gal)						0.01

Calculation of Residual Dissolved-Phase Contaminant Mass (Third Quarter 2005)
Indianola Market, Eureka, CA

Residual MTBE (zone 2) MTBE concentrations 10 µg/L to 100 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.032	1,865	15	0.35	9,791	313.3	0.01951
Total MTBE (lb)						0.01951
Total MTBE (gal)						0.0032

Residual MTBE (zone 3) MTBE concentrations 1 µg/L to 10 µg/L

MTBE mean (mg/L)	A (ft ²)	h (ft)	n	V (ft ³)	MTBE mass (ft ³ -mg/L)	MTBE mass (lb)
0.0032	3,077	15	0.35	16,154	51.7	0.00322
Total MTBE (lb)						0.00322
Total MTBE (gal)						0.0005

Total MTBE Mass (lb)	0.1010
Total MTBE Vol. (gal.)	0.0166

A = Area

h = thickness

V = volume = A * h

n = soil porosity (assume 35%)

MTBE mass (ft³-mg/L) = V (ft³) * MTBE conc. (mg/L)

MTBE mass (lb) = Mass (ft³-mg/L) * (28.31 L/ft³) * (0.000001 kg/mg) * (2.2 lb/kg)

MTBE vol (gal) = MTBE mass (lb) / density of gasoline (assume 6.1 lb/gal.)

GAGING DATA/PURGE CALCULATIONS

Job No.: NC-18 Location: 7769 Myrtle Ave. Date: 7/1/05 Tech(s): JL

[illegible]

Explanation:

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV,
well development 10 x CV)

SPH = Thickness of Separate Phase Hydrocarbons

Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.



BLUE ROCK
ENVIRONMENTAL, INC.

PURGING DATA

SHEET

1 OF 2

Job No.: NC-18 Location: 7769 Myrtle Ave. Date: 7/1/05 Tech: JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-1			---	---	---	Sample for:
Calc. purge	10:15	0.5	292	66.7	5.11	TPHg TPHd 8260
volume	10:20	2.5	357	63.8	5.03	BTEX MTBE Metals
6.45	10:25	4.5	361	62.9	5.01	Purging Method:
	10:30	6.5	348	62.9	4.87	(PVC bailer) / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod / mod / no / no						Dedicated (Disposable bailer)
						Sample at: 10:35

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-2			---	---	---	Sample for:
Calc. purge	12:05	0.75	250	64.5	5.94	TPHg TPHd 8260
volume	12:10	3.75	373	59.5	6.09	BTEX MTBE Metals
7.44	12:15	7.50	349	58.6	6.13	Purging Method:
						(PVC bailer) / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod / mod / no / no						Dedicated (Disposable bailer)
						Sample at: 12:20

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-3			---	---	---	Sample for:
Calc. purge	10:40	0.50	336	69.3	5.66	TPHg TPHd 8260
volume	10:45	4.25	277	64.1	5.66	BTEX MTBE Metals
8.01	10:50	8.0	270	63.4	5.67	Purging Method:
						(PVC bailer) / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod / mod / no / no						Dedicated / (Disposable bailer)
						Sample at: 10:55

PURGING DATA

SHEET 2 OF 2

Job No.: NC-18 Location: 7769 Myrtle Ave Date: 7/1/05 Tech: JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-4			---	---	---	Sample for:
Calc. purge	11:00	3.0	447	62.7	5.34	TPHg TPHd 8260
volume	11:05	5.0	443	58.0	5.38	BTEX MTBE Metals
7.17	11:10	7.20	438	57.2	5.41	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod. / mod. / no sheen / no odor						Dedicated / Disposable bailer
						Sample at: 11:15

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-5			---	---	---	Sample for:
Calc. purge	11:25	0.50	293	58.2	5.15	TPHg TPHd 8260
volume	11:30	4.25	245	56.7	5.05	BTEX MTBE Metals
7.89	11:35	8.0	370	56.1	4.92	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod. / mod. / no sheen / slight odor						Dedicated / Disposable bailer
						Sample at: 12:00

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
			---	---	---	Sample for:
Calc. purge						TPHg TPHd 8260
volume						BTEX MTBE Metals
						Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
						Dedicated / Disposable bailer
						Sample at:



Report Number : 44629

Date : 7/12/2005

Andrew LoCicero
Blue Rock Environmental, Inc.
535 3rd Street, Suite 100
Eureka, CA 95501

Subject : 5 Water Samples
Project Name : Indianola Market
Project Number : NC-18

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 44629

Date : 7/12/2005

Subject : 5 Water Samples
Project Name : Indianola Market
Project Number : NC-18

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample MW-5 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample MW-2.

Approved By: _____


Joe Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 44629

Date : 7/12/2005

Project Name : Indianola Market

Project Number : NC-18

Sample : MW-1

Matrix : Water

Lab Number : 44629-01

Sample Date : 7/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Methyl-t-butyl ether (MTBE)	0.76	0.50	ug/L	EPA 8260B	7/6/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/6/2005
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	7/6/2005
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8260B	7/6/2005

Sample : MW-2

Matrix : Water

Lab Number : 44629-02

Sample Date : 7/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/7/2005
Methyl-t-butyl ether (MTBE)	260	0.50	ug/L	EPA 8260B	7/7/2005
TPH as Gasoline	420	50	ug/L	EPA 8260B	7/7/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	7/7/2005
4-Bromofluorobenzene (Surr)	93.9		% Recovery	EPA 8260B	7/7/2005
TPH as Diesel	< 400	400	ug/L	M EPA 8015	7/7/2005
Octacosane (Diesel Surrogate)	121		% Recovery	M EPA 8015	7/7/2005

Approved By:

Jed Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 44629

Date : 7/12/2005

Project Name : Indianola Market

Project Number : NC-18

Sample : MW-3

Matrix : Water

Lab Number : 44629-03

Sample Date : 7/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Methyl-t-butyl ether (MTBE)	1.4	0.50	ug/L	EPA 8260B	7/6/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/6/2005
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	7/6/2005
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	7/6/2005

Sample : MW-4

Matrix : Water

Lab Number : 44629-04

Sample Date : 7/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/6/2005
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	7/6/2005
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	7/6/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 44629

Date : 7/12/2005

Project Name : Indianola Market

Project Number : NC-18

Sample : MW-5

Matrix : Water

Lab Number : 44629-05

Sample Date : 7/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Methyl-t-butyl ether (MTBE)	92	0.50	ug/L	EPA 8260B	7/5/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/5/2005
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	7/5/2005
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	7/5/2005
TPH as Diesel	< 50	50	ug/L	M EPA 8015	7/8/2005
Octacosane (Diesel Surrogate)	115		% Recovery	M EPA 8015	7/8/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

QC Report : Method Blank Data

Project Name : **Indianola Market**

Project Number : **NC-18**

Report Number : 44629

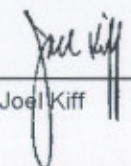
Date : 7/12/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	7/7/2005
Octacosane (Diesel Surrogate)	102		%	M EPA 8015	7/7/2005
TPH as Diesel	< 50	50	ug/L	M EPA 8015	7/8/2005
Octacosane (Diesel Surrogate)	105		%	M EPA 8015	7/8/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/5/2005
Toluene - d8 (Surr)	98.3		%	EPA 8260B	7/5/2005
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	7/5/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/5/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/5/2005
Toluene - d8 (Surr)	101		%	EPA 8260B	7/5/2005
4-Bromofluorobenzene (Surr)	99.1		%	EPA 8260B	7/5/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/6/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/6/2005
Toluene - d8 (Surr)	101		%	EPA 8260B	7/6/2005
4-Bromofluorobenzene (Surr)	93.3		%	EPA 8260B	7/6/2005

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 44629

Date : 7/12/2005

Project Name : Indianola Market

Project Number : NC-18

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Limit	Relative Percent Diff. Limit
Benzene	44629-05	<0.50	40.0	40.0	42.2	40.1	ug/L	EPA 8260B	7/5/05	106	100	5.06	70-130	25
Toluene	44629-05	<0.50	40.0	40.0	40.8	38.2	ug/L	EPA 8260B	7/5/05	102	95.4	6.75	70-130	25
Tert-Butanol	44629-05	<5.0	200	200	203	197	ug/L	EPA 8260B	7/5/05	101	98.3	3.02	70-130	25
Methyl-t-Butyl Ether	44629-05	92	40.0	40.0	125	119	ug/L	EPA 8260B	7/5/05	80.9	65.9	20.4	70-130	25
Benzene	44621-04	<0.50	40.0	40.0	39.9	38.2	ug/L	EPA 8260B	7/5/05	99.7	95.5	4.33	70-130	25
Toluene	44621-04	<0.50	40.0	40.0	39.6	38.0	ug/L	EPA 8260B	7/5/05	98.9	95.0	4.07	70-130	25
Tert-Butanol	44621-04	<5.0	200	200	202	196	ug/L	EPA 8260B	7/5/05	101	98.0	3.21	70-130	25
Methyl-t-Butyl Ether	44621-04	<0.50	40.0	40.0	37.0	36.5	ug/L	EPA 8260B	7/5/05	92.6	91.4	1.36	70-130	25
Benzene	44634-03	<0.50	40.0	40.0	39.4	38.5	ug/L	EPA 8260B	7/6/05	98.4	96.2	2.25	70-130	25
Toluene	44634-03	<0.50	40.0	40.0	39.1	38.4	ug/L	EPA 8260B	7/6/05	97.9	96.0	1.95	70-130	25
Tert-Butanol	44634-03	<5.0	200	200	193	192	ug/L	EPA 8260B	7/6/05	96.4	95.8	0.657	70-130	25
Methyl-t-Butyl Ether	44634-03	1.6	40.0	40.0	38.7	38.3	ug/L	EPA 8260B	7/6/05	92.8	92.0	0.862	70-130	25
TPH as Diesel	Blank	<50	1000	1000	871	933	ug/L	M EPA 8015	7/7/05	87.1	93.3	6.88	70-130	25
TPH as Diesel	Blank	<50	1000	1000	1010	1040	ug/L	M EPA 8015	7/8/05	101	104	2.76	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joe Kiff

QC Report : Laboratory Control Sample (LCS)

Report Number : 44629

Date : 7/12/2005

Project Name : **Indianola Market**

Project Number : **NC-18**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	7/5/05	101	70-130
Toluene	40.0	ug/L	EPA 8260B	7/5/05	99.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/5/05	95.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/5/05	99.3	70-130
Benzene	40.0	ug/L	EPA 8260B	7/5/05	95.2	70-130
Toluene	40.0	ug/L	EPA 8260B	7/5/05	96.9	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/5/05	97.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/5/05	88.1	70-130
Benzene	40.0	ug/L	EPA 8260B	7/6/05	97.0	70-130
Toluene	40.0	ug/L	EPA 8260B	7/6/05	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/6/05	94.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/6/05	93.5	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff





2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 44629

Page 1 of 1

Project Contact (Hardcopy or PDF To): Andrew Locicero California EDF Report? ☒ Yes ☐ No

Company/Address: Blue Rock Env. Inc.
535 3rd St. Ste. 100 Eureka CA

Recommended but not mandatory to complete this section:
Sampling Company Log Code:

Phone No.:

FAX No.:

Global ID:

(707) 441-1934

(707) 441-1949

T-0-6-0-2-3-0-0-4-8-9

Project Number:

P.O. No.:

EDF Deliverable To (Email Address):

NC-18

Andrew@bluerockenv.com

Project Name:

Indianola Market

Sampler Signature:

James Linderman

Project Address:

7769 Myrtle Ave
Eureka CA

Sample Designation

Sampling

Container

Preservative

Matrix

Date

Time

40 ml VOA

SLEEVE

HCl

HNO₃

ICE

NONE

WATER

SOIL

BTEX (8021B)

BTEX/TPH Gas/MTBE (8021B/M8015)

TPH as Diesel (M8015)

TPH as Motor Oil (M8015)

TPH Gas/BTEX/MTBE (8260B)

5 Oxygenates/TPH Gas/BTEX (8260B)

7 Oxygenates/TPH Gas/BTEX (8260B)

5 Oxygenates (8260B)

7 Oxygenates (8260B)

Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)

EPA 8260B (Full List)

Volatile Halocarbons (EPA 8260B)

Lead (7421/239.2) TOTAL (X) W.E.T. (X)

TAT

12 hr/24 hr/48 hr/72 hr/1 wk

For Lab Use Only

Relinquished by:

James Linderman

Date

Time

7/1/05

Received by:

Fed Ex

Remarks:

Relinquished by:

Date

Time

07-02-05

Received by:

Moffett w/channe

Relinquished by:

Date

Time

07-02-05

Received by Laboratory:

KIFF Analytical LLC

Bill to:

Barcode
Temp 0.35 Therm 100 12.2
Initial MWV
Date 07-02-05 Time 10:10
Coolant present (Yes) No